Read December 1, 1769.

LVI. *Eclipses of* Jupiter's *First Satellite, with an Eighteen Inch Reflector of Mr.* Short's. *Observed by Dr.* Wilson *at the* Glasgow *Observatory.*

			Equal time. h	′	″	‴	Apparent. h	′	″	‴	
1762	Sept.	11 Im.	10	55	33	21	10	55	33	21	good.
	Oct.	4 Im.	11	1	58	—	11	13	22	21	good.
	Nov.	14 Em.	6	8	33		6	23	43	55	indifferent.
		21 Em.	8	1	31	38	8	16	39		good [ly clear.
1763	Oct.	23 Im.	12	50	24	—	13	5	56	53	good, air extreme-
	Nov.	1 Im.	9	12	18	43	9	28	29	18	good, like the for-
1764	Oct.	25 Im.	16	8	48	—	16	24	40		indif. good. [mer.
1765	Febr.	14 Em.	6	18	28		6	3	55		good.
	March	7 Em.	12	2	24		11	51	29		good.
	Nov.	29 Im.					15	53	26		indifferent.
	Dec.	22 Im.	15	54	4	—	15	54	25		indifferent.
1766	April	20	8	4	23	—	8	5	41	15	good.

		Solar Eclipse.	h	′	″	h	′	″	
1769	March 31	Beginning	20	58	16	20	54	15	9
		Gr. obs.	22	19	3	22	15	2	
		End	23	46	55	23	42	52	

1769 Nov. 6

☽'s west. limb. Merid. h ′ ″ 6 52 6

Alt. of ☽'s under limb. ° ′ ″ 20 47 36+

Parts of 96. ° ″ parts. 22 1 14

Barom. inches	Ther. without. °	°	
29,66	49	46	

This is the only one of the Moon since the quadrant was in order.

N. B. The equation of time made use of, is taken from De la Caille's Ephemeris.

Obser-

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Obſervations of Eclipſes of Jupiter's *Firſt Satellite, proper to be compared with the foregoing ones, in order to determine the Difference of Meridians of* Greenwich *and* Glaſgow. *Communicated by the Aſtronomer Royal.*

				App. time. h	′	″	
1762	Sept.	11	Im.	11	12	43	Surry-ſtreet, 2 feet reflector. By N. Maſkelyne.
	Oct.	4	Im.	11	31	1	Surry-ſtreet, 2 f. ref. Obſerved by J. Short.
	Nov.	3	Em.	15	56	57½	Greenwich, 6 f. ref. By C. Green.
	Nov.	12	Em.	12	10	56	Surry-ſtr. 2 f. ref. By J. Short.
1763	Oct.	16	Im.	11	27	39	Surry-ſtr. 2 f. ref. By J. Short.
	Nov.	1	Im.	9	45	25	Surry-ſtr. 2 f. ref. By J. Short.
1764	Nov.	4	Im.	13	3	37	Greenwich, 2 f. ref. By C. Green.
	Nov.	10	Im.	14	57	11	Greenwich, 6 f. ref. By C. Green.
1765	Feb.	19	Em.	13	46	42	Greenwich, 6 f. ref. By C. Green, good obſervation.
	Dec.	1	Im.	10	40	11	Greenw. 18 inch ref. } By N. Maſkelyne
		8	Im.	12	31	34	Greenw. 6 f. ref. Air very clear. } By N. Maſkelyne
		15	Im.	14	22	3	Greenw. 6 f. ref. } By N. Maſkelyne
		22	Im.	16	12	19	Greenw. 6 f. ref. } By N. Maſkelyne
		24	Im.	10	39	27	Greenw. 6 f. ref. } By N. Maſkelyne
1766	April	11	Em.	11	56	30	Greenw. 6 f. ref. By J. Dymond.

N. B. The late Mr. Short's houſe, in Surry-ſtreet, where ſome of the above obſervations were made, is $26''\frac{1}{2}$ of time weſt of Greenwich.